



Table of Contents

VOLUME 104 (1997)

Instructions to Authors

v

MAIN ARTICLES

Mismatch field to tone pairs: neuromagnetic evidence for temporal integration at the sensory level V. Csépe, C. Pantev, M. Hoke, B. Ross, S. Hampson (Germany, Hungary)	1
Temporal distortion products (kernel slices) evoked by maximum-length-sequences in auditory neuropathy: evidence for a cochlear pre-synaptic origin P. Deltenre, A.L. Mansbach, C. Bozet, A. Clercx, K.E. Hecox (Belgium, USA)	10
Auditory neuropathy: a report on three cases with early onsets and major neonatal illnesses P. Deltenre, A.L. Mansbach, C. Bozet, A. Clercx, K.E. Hecox (Belgium, USA)	17
Possible overlapping potentials of the auditory P50 in humans: factor analysis of middle latency auditory evoked potentials H. Ninomiya, T. Onitsuka, C.-H. Chen, N. Kinukawa (Japan)	23
Steady-state auditory evoked responses to pulsed frequency modulations in children G.A. Stefanatos, C. Foley, W. Grover, B. Doherty (USA)	31
Brain-stem auditory evoked potentials in the common marmoset (<i>Callithrix jacchus</i>) T. Harada, M. Tokuriki (Japan)	43
Afferent mechanism of cortical myoclonus studied by proprioception-related SEPs T. Mima, K. Terada, A. Ikeda, H. Fukuyama, T. Takigawa, J. Kimura, H. Shibasaki (Japan)	51
Giant central N20-P22 with normal area 3b N20-P20: an argument in favour of an area 3a generator of early median nerve cortical SEPs? M. Valeriani, D. Restuccia, V. Di Lazzaro, D. Le Pera, M. Scerrati, P. Tonali, F. Mauguière (Italy, France)	60
Dissociation between upper and lower neck N13 potentials following paired median nerve stimuli A. Araki, T. Yamada, T. Ito, N. Urushibara, R. Kohira, S.-P. Hsu, M. Yeh (USA)	68
Interocular interaction assessed by VEPs to pattern-onset, -reversal, and -offset in normally sighted and amblyopic subjects F.S. Shawkat, A. Kriss (UK)	74
Comparison of psychophysical and evoked potential methods in the detection of visual deficits in multiple sclerosis H. Herbst, A. Ketabi, P. Thier, J. Dichgans (Germany)	82
Magnetically recorded oscillatory responses to luminance stimulation in man L. Lopez, W.G. Sannita (Italy, USA)	91
Comparison of the mechanisms of latency shift in pattern reversal visual evoked potential induced by blurring and contrast reduction V. Tumas, A.C. Sakamoto (Brazil)	96
Modality-specific organization for cutaneous and proprioceptive sense in human primary sensory cortex studied by chronic epicortical recording T. Mima, A. Ikeda, K. Terada, S. Yazawa, N. Mikuni, T. Kunieda, W. Taki, J. Kimura, H. Shibasaki (Japan)	103
Enhanced amplitude reduction of somatosensory evoked potentials by voluntary movement in the elderly T. Touge, H. Takeuchi, I. Sasaki, K. Deguchi, N. Ichihara (Japan)	108
The usefulness of the spinal and subcortical components of the posterior tibial nerve SEPs for spinal cord monitoring during aortic coarctation repair J.-M. Guérit, C. Witdoeck, J. Rubay, A. Matta, R. Dion (Belgium)	115
The pathophysiology of giant SEPs in cortical myoclonus: a scalp topography and dipolar source modelling study M. Valeriani, D. Restuccia, V. Di Lazzaro, D. Le Pera, P. Tonali (Italy)	122
Somatosensory evoked potentials in adults with cortical dysgenesis and epilepsy A.A. Raymond, S.J. Jones, D.R. Fish, J. Stewart, J.M. Stevens (UK)	132

Integrated mismatch negativity (MMN _i): a noise-free representation of evoked responses allowing single-point distribution-free statistical tests	
C.W. Ponton, M. Don, J.J. Eggermont, B. Kwong (USA, Canada)	143
Robust moving averages, with Hopfield neural network implementation, for monitoring evoked potential signals	
N. Laskaris, S. Fotopoulos, P. Papathanasopoulos, A. Bezerianos (Greece)	151
A comparison of the repetitive click and conditioning-testing P50 paradigms	
V.A. Cardenas, K. McCallin, R. Hopkins, G. Fein (USA)	157
Prognostic value of visual evoked potentials (VEP) in infants with visual inattentiveness	
K. Iinuma, C.T. Lombroso, Y. Matsumiya (USA, Japan)	165
Electrophysiological assessment of visual function in IDDM patients	
V. Parisi, L. Uccioli, G. Monticone, L. Parisi, G. Manni, D. Ippoliti, G. Menzinger, M.G. Bucci (Italy)	171
The effects of electroconvulsive shock on the flash visual evoked potential in the rat	
N.A. Shaw (New Zealand)	180
Ipsilateral median somatosensory evoked potentials recorded from human somatosensory cortex	
S. Noachtar, H.O. Lüders, D.S. Dinner, G. Klem (Germany, USA)	189
Event-related coherence and event-related desynchronization/synchronization in the 10 Hz and 20 Hz EEG during self-paced movements	
L. Leocani, C. Toro, P. Manganotti, P. Zhuang, M. Hallett (USA)	199
Safety of rapid-rate transcranial magnetic stimulation: heart rate and blood pressure changes	
A. Foerster, J.M. Schmitz, S. Nouri, D. Claus (Germany)	207
Event-related potentials to Italian spoken words	
A. Cobiañchi, S. Giaquinto (Italy)	213
Brain/behaviour dissociation on old/new distinction in a patient with amnesic syndrome	
W. Lalouschek, G. Goldenberg, A. Marterer, R. Beisteiner, G. Lindinger, W. Lang (Austria)	222
A topographical ERP study of healthy premature 5-year-old children in the auditory and visual modalities	
M.E. Lavoie, P. Robaey, J.E.A. Stauder, J. Glorieux, F. Lefebvre (Canada)	228
EEG and ERP assessment of normal aging	
J. Polich (USA)	244
The cortical generators of the contingent negative variation in humans: a study with subdural electrodes	
T. Hamano, H.O. Lüders, A. Ikeda, T.F. Collura, Y.G. Comair, H. Shibasaki (USA, Japan)	257
Ozone produces functional deficits in the rat visual pathway	
V. Custodio-Ramírez, C. Paz (Mexico)	269
Visual evoked potentials in the vicinity of the optic tract during stereotactic pallidotomy	
S. Tobimatsu, F. Shima, K. Ishido, M. Kato (Japan)	274
Activation of a distributed somatosensory cortical network in the human brain. A dipole modelling study of magnetic fields evoked by median nerve stimulation. Part I: location and activation timing of SEF sources	
F. Mauguière, I. Merlet, N. Forss, S. Vanni, V. Jousmäki, P. Adeleine, R. Hari (France, Finland)	281
Activation of a distributed somatosensory cortical network in the human brain: a dipole modelling study of magnetic fields evoked by median nerve stimulation. Part II: effects of stimulus rate, attention and stimulus detection	
F. Mauguière, I. Merlet, N. Forss, S. Vanni, V. Jousmäki, P. Adeleine, R. Hari (France, Finland)	290
Detailed analysis of the latencies of median nerve somatosensory evoked potential components, 2: analysis of subcomponents of the P13/14 and N20 potentials	
M. Sonoo, K. Genba-Shimizu, T. Mannen, T. Shimizu (Japan)	296
Selective gating of lower limb cortical somatosensory evoked potentials (SEPs) during passive and active foot movements	
M. Tinazzi, G. Zanette, F. La Porta, A. Polo, D. Volpato, A. Fiaschi, F. Mauguière (Italy, France)	312
Mapping of tibial nerve evoked magnetic fields over the lower spine	
B.-M. Mackert, G. Curio, M. Burghoff, P. Marx (Germany)	322
Somatosensory evoked potential monitoring in carotid surgery. II. Comparison between qualitative and quantitative scoring systems	
C. Witdoeck, S. Ghariani, J.-M. Guérit (Belgium)	328
Somatosensory evoked potentials elicited by stimulation of lower-limb nerves in amyotrophic lateral sclerosis	
M. Georgesco, A. Salerno, W. Camu (France)	333
Non-painful and painful stimulation of human skin and muscle: analysis of cerebral evoked potentials	
P. Svensson, A. Beydoun, T.J. Morrow, K.L. Casey (Denmark, USA)	343
Olfactory event-related potentials: older males demonstrate the greatest deficits	
C.D. Morgan, J.W. Covington, M.W. Geisler, J. Polich, C. Murphy (USA)	351
Is it really a mismatch negativity? An assessment of methods for determining response validity in individual subjects	
T. McGee, N. Kraus, T. Nicol (USA)	359
Relative value of theinion and mid-parietal locations as additional recording sites in pattern reversal visual evoked potentials	
A. Beydoun, I. Drury, C. Vanderzant (USA)	369
Different effects of cholinergic agents on responses recorded from the cat visual cortex and lateral geniculate nucleus dorsalis	
K. Arakawa, S. Tobimatsu, M. Kato, T. Kobayashi (Japan)	375

Pudendal nerve somatosensory evoked potentials in paediatrics: maturation aspects	
A. Perretti, A. Savanelli, P. Balbi, G. De Bernardo (Italy)	383
A method of uroneurophysiological investigation in children	
S. Podnar, D.B. Vodusek, B. Trsinar, Z. Rodi (Slovenia)	389
Somatosensory evoked magnetic fields and potentials following passive toe movement in humans	
J. Xiang, R. Kakigi, M. Hoshiyama, Y. Kaneoke, D. Naka, Y. Takeshima, S. Koyama (Japan)	393
Median and tibial nerve somatosensory evoked potentials: middle-latency components from the vicinity of the secondary somatosensory cortex in humans	
C. Kany, R.-D. Treede (Germany)	402
H-reflex changes in the course of amyotrophic lateral sclerosis	
L. Mazzini, C. Balzarini, F. Gareri, M. Brigatti (Italy)	411
Developmental changes in the event-related EEG theta response and P300	
J. Yordanova, V. Kolev (Bulgaria)	418
Estimate of physiological variability of peak latency in single sweep P300	
S. Nishida, M. Nakamura, S. Suwazono, M. Honda, H. Shibasaki (Japan)	431
Dynamics of MLAEP changes in midazolam-induced sedation	
D. Morlet, O. Bertrand, F. Salord, R. Boulieu, J. Pernier, C. Fischer (France)	437
Event-related potentials of the rat during active and passive auditory oddball paradigms	
T. Shinba (Japan)	447
Magnetic stimulation over the cerebellum in patients with ataxia	
Y. Ugawa, Y. Terao, R. Hanajima, K. Sakai, T. Furubayashi, K. Machii, I. Kanazawa (Japan)	453
Somatosensory evoked potential monitoring in carotid surgery. I. Relationships between qualitative SEP alterations and intraoperative events	
J.-M. Guérit, C. Witdoeck, M. de Tourchaninoff, S. Ghariani, A. Matta, R. Dion, R. Verhelst (Belgium)	459
Long sensory tracts (cuneate fascicle) in cervical somatosensory evoked potential after median nerve stimulation	
B. Prestor, B. Gnidovec, P. Golob (Slovenia)	470
Somatosensory evoked magnetic fields to median nerve stimulation: interhemispheric differences in a normal population	
H. Wikström, R.O. Roine, O. Salonen, H.J. Aronen, J. Virtanen, R.J. Ilmoniemi, J. Huttunen (Finland)	480
P300 from a single-stimulus paradigm: passive versus active tasks and stimulus modality	
R. Mertens, J. Polich (USA)	488
An overview of age-related changes in the scalp distribution of P3b	
D. Friedman, V. Kazmerski, M. Fabiani (USA)	498
Differential changes of laser evoked potentials, late auditory evoked potentials and P300 under morphine in chronic pain patients	
J. Lorenz, H. Beck, B. Bromm (Germany)	514
Short latency vestibular evoked potentials (VsEPs) to linear acceleration impulses in rats	
M. Plotnik, J. Elidan, M. Mager, H. Sohmer (Israel)	522
Activation of duration-sensitive auditory cortical fields in humans	
C. Alain, D.L. Woods, D. Covarrubias (USA, Canada)	531
Developmental changes in P1 and N1 central auditory responses elicited by consonant-vowel syllables	
A. Sharma, N. Kraus, T.J. McGee, T.G. Nicol (USA)	540
Reflection of working memory: ERP mnemonic effects	
X. Lei Zhang, H. Begleiter, B. Porjesz, A. Litke (PR China, USA)	546
Use of nitrous oxide to dissociate the non-specific and specific components of the human auditory N ₁	
E.W. Pang, B. Fowler (Canada)	555

LETTER TO THE EDITOR

Does the P35m SEF deflection really come from the motor cortex?	
J. Huttunen (Finland)	101

Erratum	381
---------	-----

Index of Authors to Volume 104 (1997)	559
---------------------------------------	-----

Index of Subjects to Volume 104 (1997)	563
--	-----

Table of Contents to Volume 104 (1997)	571
--	-----